



THE

# RecyCool PLANET

The Official RecyCool Club Publication

Fall Edition

## Greetings!

Greetings RecyCoolers! It's that time of year again. Fall is here and the leaves are starting to change color, the holiday season is almost here, and of course, it's time to go back to school! I hope all of you had a great summer. I know I did. I had so much fun going to events around California and making lots of new friends. In June, I went to the Gem and Mineral Show in Roseville, where I met so many nice people who were all doing a good job of recycling. I also went to the California State Fair where I had a blast talking to fairgoers about how important it is to recycle their bottles and cans.

I also spent a lot of time playing outdoors this summer. I especially loved playing baseball, which I did almost every day. My friends and I also tried to stay cool by going swimming. All of that playing outside was so much fun, but it sure made us thirsty! We found ourselves drinking lots of extra water, juice and soda. After we were finished with our drinks, we always made sure to recycle our empty bottles and cans. We collected them all summer and then, guess where we took them? To the recycling center! We got money for all of the containers that had a label with "California Cash Refund" or "California Redemption Value" (CRV). With all the money we earned, we were able to go shopping and buy some cool new school supplies. To find your nearest recycling center, you can call my friends at 1-800-RECYCLE and they'll be happy to help you. Just be sure to know your zip code and to get your parents permission first!



## FUN FALL CRAFT! DO YOU KNOW JACK?

You can have fun making your own Jack O' lantern out of a plastic soda or water bottle! The clear ones work best! Decorate your porch, or classroom with this fun activity!

### Materials:

- Any size soda or water bottle, cleaned with the label removed
- Orange craft paint
- Water
- Scissors
- Paint or paint pens (for Jack's face)
- Green felt
- Glue
- Raffia or yarn



### Instructions:

1. Pour some paint and a little water into your bottle. Put the lid back onto the bottle. Swish the paint around so it coats the entire bottle on the inside. (If you use too much water, the orange coloring won't be as bright and it won't dry!).
2. Using paint or paint pens make a face on the front of the bottle! Paint pens are easy to work with!
3. Using the green felt, cut a circle, about 3 times the size of the bottle cap.
4. Put a few drops of glue on the bottle cap and put the green felt circle on top, let it dry.
5. When the glue is dry, tie a piece of raffia or yarn around the bottleneck.
6. When the paint on the inside is dry... fill about 1/4 the way with sand or pebbles so the bottle won't blow away if you put it on your porch!

Now that school is back in session, I know all of you will be very busy with class projects and homework. But one thing you should always remember and make time for is recycling. Not only is recycling easy and fun to do, but it helps the environment too! Every time you recycle a bottle or can, you are making a positive difference in the world and doing your part to keep our planet clean and healthy.

Have fun at school and don't forget to tell all of your friends and classmates to recycle their beverage containers. You can even recycle this newsletter by passing it on to a friend or teacher. Remember to recycle where you live, learn and play!

*Recycle Rex*

## RECYCLE REX'S SECRET MESSAGE TO YOU!

Recycle Rex has an important message for his RecyCool Club Members. Match the numbers to the letters using the table below and put them in the space provided. The first two are already done for you!



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
25 15 8 21 19 10 3 6 1 12 22 9 20 14 18 13 4 24 23 11 7 16 17 26 2 5

10 18 24 3 19 11

11 18

24 19 8 2 8 9 19

2 18 7 24

3 9 25 23 23

8 24 16    15 19 16    19 24 25    3 19    8 18 14    11 25 1    14 19 24    23    10 18 24

24,197 + 25,142 = 49,339



## THINGS TO KNOW ABOUT GLASS!

Here are some interesting facts about glass and a little glass history too! Share this information with your parents or teachers! I'm sure they'd love to learn why it is so important to recycle all of your glass.

- Most bottles and jars contain at least 25% recycled glass.
- We get 27.8 pounds of air pollution for every ton of new glass produced.
- Recycling glass reduces that pollution by 14-20%.
- Americans recycled enough glass last year to fill New Jersey's Giants Stadium more than 3 1/2 times.
- Some of the most common things made from recycled glass are new glass containers, fiberglass insulation, road beds (aggregate), concrete block, and glassphalt (asphalt).

## How about a little glass history?

- The oldest known examples of glass are Egyptian beads dating from 12,000 B.C.
- Humans learned to mold glass about 7,000 B.C.
- America's first glass house was built in 1608 by settlers in Jamestown, Virginia.
- The mason jar was invented in 1858. It allowed fruits and vegetables to be preserved.
- In 1903, invention of the Owens Automatic Bottle Machine allowed lots of the exact same bottles and jars to be made at the same time!

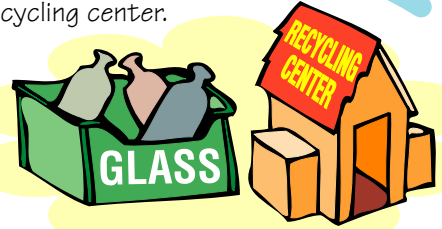


**Sources:** The Earth Works Group Recycler's Handbook, Glass Packaging Institute American Flint Glass Workers Union Glass Molders Pottery Plastics & Allied Workers, and Waste Management, Inc.

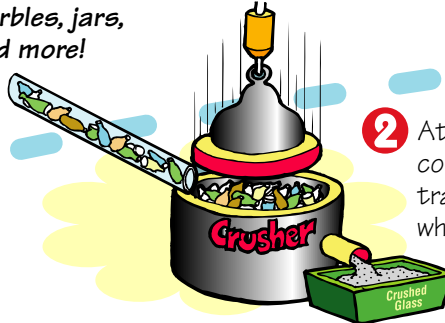
# Glass Recycling Process

Have you ever thought about what happens to the glass bottles that you place into your curbside recycling bin or take to the recycling center to be recycled? Recycled glass can be used to make marbles, jars, bottles, plates, bowls, tiles and more! This is how:

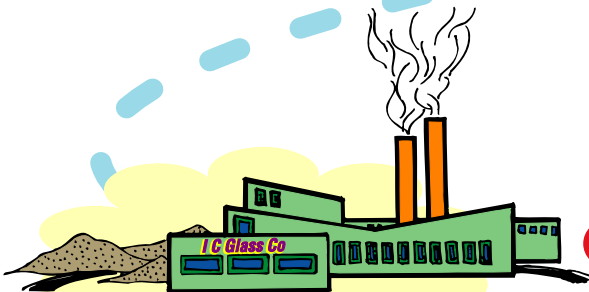
- 1 The glass bottles collected from your curbside bins are taken to the recycling center.



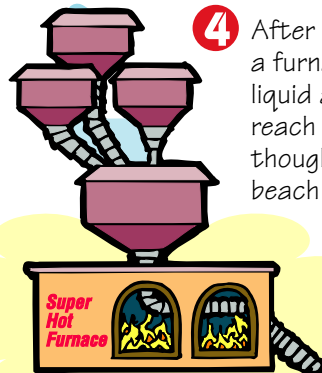
- 2 At the recycling center, the glass containers are sorted by color and transported to a processing facility where they are cleaned and crushed into tiny pieces called cullet.



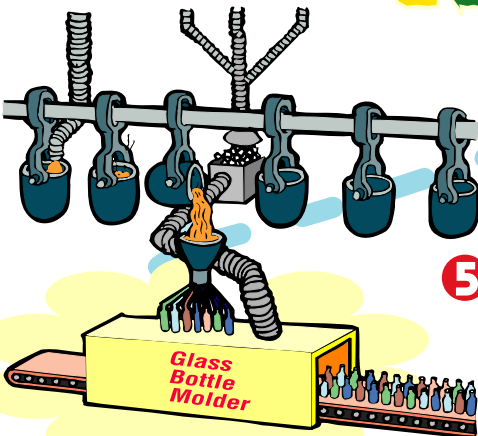
- 3 The cullet is transported to a glass manufacturing plant and mixed with sand, soda ash and limestone (minerals that come out of the ground).



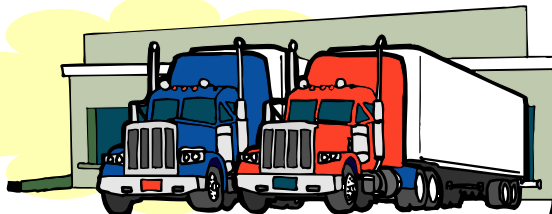
- 4 After mixing, the batch is fed into a furnace and is melted into a thick liquid at temperatures that can reach 2800 F. (Ouch! And you thought walking on the sand at the beach was hot.)



- 5 The melted glass is dropped into a glass forming machine where it is poured into molds, blown with air and pressed into its final shape (such as a soda bottle!)



- 6 Once the mold is removed, the glass is cooled, inspected and shipped to companies that make drinks and food.







State of California  
THE RESOURCES AGENCY  
Department of Conservation  
Division of Recycling  
801 K Street, MS 17-01  
Sacramento, CA 95814

## RECYCLE REX'S MISSING LETTER PUZZLE

Find the letter of the alphabet that is missing in each row and write it down in the space provided. Then read from top to bottom and write each letter in the spaces below.

**HINT:** What should we all do to help save energy and keep waste out of our landfills?

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z \_\_\_\_\_  
 Z Y X W V U T S R Q P O N M L K J I H G F D C B A \_\_\_\_\_  
 A B D E F G H I J K L M N O P Q R S T U V W X Y Z \_\_\_\_\_  
 Z X W V U T S R Q P O N M L K J I H G F E D C B A \_\_\_\_\_  
 A B D E F G H I J K L M N O P Q R S T U V W X Y Z \_\_\_\_\_  
 Z Y X W V U T S R Q P O N M K J I H G F E D C B A \_\_\_\_\_  
 A B C D F G H I J K L M N O P Q R S T U V W X Y Z \_\_\_\_\_



Answer:  
RECYCLE



## RECYCLE REX'S SECRET MESSAGE TO YOU!

Answer Table

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|
| 24 | 19 | 7  | 23 | 19 |    | 25 | 14 | 21 |    | 8  | 9  | 18 | 23 | 19 |    | 11 | 6  | 19 |    | 9 | 18 | 18 | 13 |    |    |    |    |
| R  | E  | U  | S  | E  | ,  | A  | N  | D  |    | C  | L  | O  | S  | E  |    | T  | H  | E  |    | L | O  | O  | P  |    |    |    |    |
| 20 | 18 | 14 | 19 | 2  |    | 24 | 19 | 8  | 2  | 8  | 9  | 19 | 24 | 19 | 21 | 7  | 8  | 19 |    |   |    |    |    |    |    |    |    |
| M  | O  | N  | E  | Y  |    | R  | E  | C  | Y  | C  | L  | E  |    | R  | E  | D  | U  | C  |    |   |    |    |    |    |    |    |    |
| 8  | 24 | 16 |    |    |    | 15 | 19 | 16 | 19 | 24 | 25 | 3  | 19 |    | 8  | 18 | 14 | 11 | 25 | 1 | 14 | 19 | 24 | 23 |    |    |    |
| C  | R  | Y  |    | B  | E  | V  | E  | R  | A  | G  | E  |    | C  | O  | N  | T  | A  | I  | N  | E | R  | S  |    |    |    |    |    |
| 10 | 18 | 24 | 3  | 19 | 11 |    | 11 | 18 |    | 24 | 19 | 8  | 2  | 8  | 9  | 19 |    | 2  | 18 | 7 | 24 |    | 3  | 9  | 25 | 23 | 23 |
| F  | O  | R  | G  | E  | T  |    | T  | O  |    | R  | E  | C  | Y  | C  | L  | E  |    | Y  | O  | U | R  |    | G  | L  | A  | S  | S  |
| 24 | 19 | 8  | 2  | 8  | 9  | 19 |    | 24 | 19 | 26 | 23 | 25 | 2  | 23 |    | 21 | 18 | 14 |    |   |    |    |    |    |    |    |    |
| R  | E  | C  | Y  | C  | L  | E  |    | R  | E  | X  |    | S  | A  | Y  | S  | :  | D  | O  | N  |   | T  |    |    |    |    |    |    |

**LOOK OUT  
CHICO/PARADISE  
RECYCLE REX  
SCHOOL ASSEMBLIES  
ARE COMING  
YOUR WAY IN  
JANUARY, FEBRUARY  
AND MARCH OF 2006!**

Schools in Chico/Paradise can receive more information by visiting Recycle Rex's web page at [www.consrv.ca.gov/DOR/rre/index](http://www.consrv.ca.gov/DOR/rre/index) or contacting Judy Chaney at (916) 327-7078

**Congratulations**  
to all the  
RecyCool Club Graduates!

If this is the fourth newsletter you've received from me, you've officially graduated from my RecyCool Club! You can continue to learn about recycling, reducing, reusing and closing the loop on my website: [www.conservation.ca.gov](http://www.conservation.ca.gov) look for the "Kids Only" section. Please remember to recycle where you live, learn and play!